



# ENERGY ASSURANCE DAILY

Monday Evening, June 20, 2016

## Electricity

### Update: Nearly 9,000 Dominion Customers Remain without Power in Virginia June 20 after Severe Thunderstorms Hit June 16

Dominion Virginia Power on Monday said it was continuing restorations efforts in the hardest hit areas after fast-moving thunderstorms producing winds up to 70 mph and lightning knocked out power to at least 250,000 customers on June 16. The utility on Sunday said additional damage was discovered that was not visible during the original assessments. As of 3:30 p.m. EDT Monday, 8,936 customers remained without power. Dominion said it expects full power restoration by Monday night.

- <http://outagemap.dom.com.s3-website-us-east-1.amazonaws.com/external/report.html?report>
- <https://www.dom.com/library/domcom/pdfs/corporate/thunderstorm-release-061716.pdf?la=en>
- <https://www.facebook.com/dominionvirginiapower>
- <https://twitter.com/DomVAPower>

### Strong Storms Knock Out Power to Over 127,000 Customers in Alabama June 17

Strong storms knocked out power to at least 127,800 customers on Friday across central and southern Alabama. Alabama’s Governor Robert Bentley declared a state of emergency to allow crews from other states to assist Alabama Power, which reported 115,000 customer outages, in restoring power. As of 9:30 p.m. CDT Saturday, the most recent outage update provided by the utility, 1,800 customers remained without power. The table below shows total affected customers and the latest reported outages by utility. The “Affected” column shows the total count of customers that lost power at one point or another over the course of the storm for each utility. These outages may not have occurred concurrently and are not the same as peak outages.

Alabama Customer Power Outages			
June 17–20, 2016			
Electric Utility	State	Affected	Latest Reported
Alabama Power	AL	115,000	1,800
South Alabama Electric Cooperative	AL	3,600	0
Central Alabama Electric Cooperative	AL	3,200	0
Covington Electric Cooperative	AL	3,000	0
Baldwin EMC	AL	1,500	0
Wiregrass Electric Cooperative	AL	1,500	0
<b>TOTAL*</b>		<b>127,800</b>	<b>1,800</b>

\*Total outages represent only electric utilities listed in this table.

Sources:

- <https://twitter.com/alabamapower>
- <https://www.facebook.com/South-Alabama-Electric-Cooperative-163727646989577/>
- <http://caec.coop/electric-service/current-outages/>
- [https://twitter.com/CAEC\\_COOP](https://twitter.com/CAEC_COOP)
- <https://www.facebook.com/covingtonelectric>
- <https://oms.baldwinemc.com:82/>
- <https://twitter.com/baldwinemc>
- <https://www.facebook.com/wiregrasselectric/>

## Thunderstorms Knock Out Power to Over 77,000 Customers in South Carolina June 17

Strong thunderstorms producing high winds, hail, and lightning knocked out power to at least 77,536 customers throughout central and coastal South Carolina on Friday afternoon. Wind gusts of up to 60 mph were reported, toppling trees and powerlines. As of 3:30 p.m. EDT Monday, 71 customers remained without power. SCE&G, the hardest hit utility with 54,508 customer outages, said the storms and high winds had caused significant damage to its electric system. The table below shows total affected customers and the latest reported outages by utility. The “Affected” column shows the total count of customers that lost power at one point or another over the course of the storm for each utility. These outages may not have occurred concurrently and are not the same as peak outages.

<b>South Carolina Customer Power Outages</b>			
June 17–20, 2016			
<b>Electric Utility</b>	<b>State</b>	<b>Affected</b>	<b>Latest Reported</b>
SCE&G	SC	54,508	17
Berkeley Electric Cooperative	SC	17,000	0
Santee Cooper	SC	2,455	0
Aiken Electric Cooperative	SC	2,300	0
Duke Energy	SC	1,273	54
<b>TOTAL*</b>		<b>77,536</b>	<b>71</b>

\*Total outages represent only electric utilities listed in this table.

Sources:

<https://www.sceg.com/outages-emergencies/power-outages/outage-map>

<https://twitter.com/scegnews>

<https://www.facebook.com/BerkeleyElectricCooperative/?fref=nf>

<http://204.116.16.29:8080/>

<https://www.facebook.com/AikenElectricCooperative/posts/877563162389247>

<http://172.18.1.95:88/>

<http://stormcenter.santeecooper.com/default.html>

<http://outagemap.duke-energy.com/ncsc/default.html>

[http://www.heraldcourier.com/news/severe-storms-cut-power-to-around-columbia/article\\_64f424f1-7cde-5196-bb94-5adc75421455.html](http://www.heraldcourier.com/news/severe-storms-cut-power-to-around-columbia/article_64f424f1-7cde-5196-bb94-5adc75421455.html)

<http://www.greenfieldreporter.com/view/story/9bdadf8486bc4d6b9760a5f3297751c0/SC--Severe-Storms>

<http://abcnews4.com/news/local/severe-thunderstorm-watch-until-10-heat-advisory-until-6>

## Update: Power Restoration Nearly Complete in Georgia June 20 after Storms Knock Out Power to Over 86,000 Customers June 17

Strong storms producing high winds and hail knocked out power to at least 86,589 customers in Georgia on Friday afternoon. Georgia Power, the hardest hit utility with 73,000 customer outages, said heavy winds had knocked down numerous powerlines. By Friday evening, Georgia Power had restored power to 48,000 customers and by 6:30 a.m. local time on Saturday morning, less than 4,000 customers remained without power. As of 3:30 p.m. EDT Monday, 216 customers remained without power. The table below shows total affected customers and the latest reported outages by utility. The “Affected” column shows the total count of customers that lost power at one point or another over the course of the storm for each utility. These outages may not have occurred concurrently and are not the same as peak outages.

<b>Georgia Customer Power Outages</b>			
June 17–20, 2016			
<b>Electric Utility</b>	<b>State</b>	<b>Affected</b>	<b>Latest Reported</b>
Georgia Power	GA	73,000	204
Greystone Power Corporation	GA	3,638	2
Cobb Electric Membership Corporation	GA	2,312	3
Central Georgia Electric Member Corporation	GA	2,703	6
Southern Rivers Energy	GA	2,661	0
Jefferson Electric	GA	2,275	1
<b>TOTAL*</b>		<b>86,589</b>	<b>216</b>

\*Total outages represent only electric utilities listed in this table.

Sources:

[http://outagemap.georgiapower.com/external/default.html?hp=tm\\_po\\_view\\_outage\\_map](http://outagemap.georgiapower.com/external/default.html?hp=tm_po_view_outage_map)

[https://twitter.com/georgiapower?WT.svl=tw3&hp=bm\\_db\\_twitter](https://twitter.com/georgiapower?WT.svl=tw3&hp=bm_db_twitter)

<http://www.outageentry.com/dvOSM/dvOSM2.php?Client=greys>

<http://cobb.maps.sienatech.com/>  
<https://twitter.com/CentralGAEMC>  
<http://www.southernriversenergy.com/content/restoration-efforts-continue-58-remaining-pike>  
<http://68.208.12.169:82/>  
<http://outage.jec.coop:83/>  
<http://www.wrdw.com/content/news/Thousands-without-power-across-CSRA-county-by-county-breakdown-383455501.html>  
<http://www.11alive.com/news/local/trees-down-power-out-as-storm-rolls-through-atlanta/247562512>

### **MidAmerican Energy Reports Storms, Winds Knock Out Power to Over 21,000 Customers in Iowa June 17–18**

MidAmerican Energy reported thunderstorms and high winds knocked out power to at least 21,661 customers in the Sioux City, Iowa area beginning Friday night and into Saturday. Strong winds of up to 70 mph were reported, downing trees and powerlines. Just under 5,000 customers remained without power as of 2:45 p.m. local time Saturday, according to the utility's outage map and by Sunday morning nearly all power had been restored.

<https://www.midamericanenergy.com/OutageWatch/dsk.html>  
[https://twitter.com/MidAm\\_EnergyCo](https://twitter.com/MidAm_EnergyCo)  
<http://www.wowt.com/content/news/Storm-causes-damage-power-outages-in-northwest-Iowa-383518551.html>

### **SCE Reports Brief Power Outage Affects 10,000 Customers in Southern California June 18**

Southern California Edison (SCE) reported 10,000 customers were without power in Orange County on Saturday as a heat wave increased strain on the region's power grid. Most customers had power restored in less than an hour. SCE asked customers to conserve power and said it had extra staff on standby as extremely high temperatures were expected in some areas on Sunday and Monday.

<https://www.sce.com/wps/portal/home/outage-center/check-outage-status/>  
<http://www.ocregister.com/articles/edison-719799-outages-orange.html>

### **Update: Southern's 856 MW Hatch Nuclear Unit 1 in Georgia at Full Power by June 18**

On the morning of June 17 the unit was operating at 84 percent, reduced from 97 percent on June 15.

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2016/>

### **Update: Entergy's 1,207 MW Grand Gulf Nuclear Unit 1 in Mississippi Restarts June 19, Ramps Up to 48 Percent by June 20**

On the morning of June 19 the unit had restarted and ramped up to 1 percent. The unit shut from full power on June 17 due to an automatic reactor scram during testing.

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2016/>  
<http://www.nrc.gov/reading-rm/doc-collections/event-status/event/2016/20160620en.html>

### **Update: Southern's 839 MW Farley Nuclear Unit 2 in Alabama at Full Power by June 18**

On the morning of June 17 the unit had restarted and was operating at 15 percent. The unit was shut from 18 percent on June 16.

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2016/>

### **Exelon's 855 MW Quad Cities Nuclear Unit 2 in Illinois Reduced to 80 Percent by June 18**

On the morning of June 17 the unit was operating at full power.

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2016/>

### **La Paloma Generating Company's 260 MW Gas-fired Unit 4 in California Shut by June 19**

The unit entered an unplanned outage.

<http://content.aiso.com/unitstatus/data/unitstatus201606191515.html>

### **Mirant's 530 MW Pittsburg Gas-fired Unit 7 in California Reduced by June 19**

The unit entered an unplanned curtailment of 130 MW.

<http://content.aiso.com/unitstatus/data/unitstatus201606191515.html>

### **Mirant's 317 MW Pittsburg Gas-fired Unit 6 in California Reduced by June 18**

The unit entered an unplanned curtailment of 177 MW.

<http://content.aiso.com/unitstatus/data/unitstatus201606181515.html>

## **Sempra's 155 MW Copper Mountain Solar Unit in California Shut by June 17**

The unit entered an unplanned outage.

<http://content.caiso.com/unitstatus/data/unitstatus201606171515.html>

## **Mirant's 312 MW Pittsburg Gas-fired Unit 5 in California Reduced by June 17**

The unit entered an unplanned curtailment of 172 MW.

<http://content.caiso.com/unitstatus/data/unitstatus201606171515.html>

## **CAISO Urges Energy Conservation Due to Heat Wave in California June 20**

The California Independent System Operator (CAISO) issued a Flex Alert for Monday for Southern California from 10 a.m. to 9 p.m. PDT because of high temperatures expected in the region. CAISO urged consumers to conserve electricity especially during the late afternoon when air conditioners typically are at peak use and warned that natural gas, used as fuel for many power generators in the Los Angeles area, may be tight because of limited operations at the Aliso Canyon gas storage facility.

[http://www.caiso.com/Documents/CaliforniaISODeclaresFlexAlertforSouthernCaliforniaforMonday\\_6-20-2016.pdf](http://www.caiso.com/Documents/CaliforniaISODeclaresFlexAlertforSouthernCaliforniaforMonday_6-20-2016.pdf)

<http://www.reuters.com/article/us-usa-california-heatwave->

[idUSKCN0Z50V3?feedType=RSS&feedName=environmentNews&utm\\_source=feedburner&utm\\_medium=feed&utm\\_campaign=Feed%3A+reuters%2Fenvironment+%28News+%2F+US+%2F+Environment%29](http://www.reuters.com/article/us-usa-california-heatwave-idUSKCN0Z50V3?feedType=RSS&feedName=environmentNews&utm_source=feedburner&utm_medium=feed&utm_campaign=Feed%3A+reuters%2Fenvironment+%28News+%2F+US+%2F+Environment%29)

## **Update: Alberta Oil Sands Cogeneration Capacity Increases to 1,177 MW June 20 – AESO**

Cogeneration electric plants' output around Fort McMurray, Alberta increased to 1,177 MW Monday morning, its highest level since wildfires started in early May, the Alberta Electric System Operator (AESO) said. Output late last week was 982 MW, AESO said. There is about 3,200 MW of power cogeneration capacity serving the oil sands industry in Alberta, with about two-thirds located in the Fort McMurray area. Before the wildfires started, the Fort McMurray units were producing about 1,300 MW, according to local media reports.

Reuters, 7:43 June 20, 2016

## ***Petroleum***

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### **XTO Well Explosion Kills Worker in North Dakota June 18**

An explosion and fire at an XTO Energy oil well in western North Dakota on Saturday killed a worker and injured two others, the McKenzie County Sheriff's Department. The fire was out when emergency workers arrived on the scene Saturday morning, authorities said. The workers were on a workover rig that is used to perform maintenance at an oil well. An initial investigation found there was a breach in a gas pipe that ignited, state and federal investigators said. XTO Energy is a subsidiary of ExxonMobil Corp.

Reuters, 4:06 June 20, 2016

<http://abcnews.go.com/US/wireStory/killed-hurt-oil-fire-western-north-dakota-39993285>

### **Delta's Monroe Energy Shuts Compressor at Its 185,000 b/d Trainer, Pennsylvania Refinery**

Delta's Monroe Energy over the weekend lost a flare gas compressor, but the shutdown did not impact production, according to a source familiar with the plant's operations.

Reuters, 9:02 June 20, 2016

### **Citgo Reports Emissions at Its 427,800 b/d Lake Charles, Louisiana Refinery June 19**

Citgo Petroleum on Sunday reported sulfur dioxide and hydrogen sulfide emissions at its Lake Charles, Louisiana refinery. The company did not specify the unit involved in the incident.

Reuters, 11:17 June 20, 2016

### **ExxonMobil Reports Flaring at Its 238,600 b/d Joliet, Illinois Refinery June 20**

ExxonMobil Corp reported flaring at its Joliet, Illinois refinery early Monday.

Reuters, 11:34 June 20, 2016

### **ExxonMobil Reports Crane Collapse, Flaring at its 149,500 b/d Torrance, California Refinery June 20**

On Monday, ExxonMobil Corp reported three workers were injured when a 300-ton crane tipped over and collapsed while working on the fluidic catalytic cracking unit (FCCU) at its Torrance refinery. The crane was lifting a portion of the 100,000 b/d FCCU, sources familiar with the plant's operations said. Water was being used to prevent a possible fire at the site and the three contract workers suffered minor injuries. A delay to clear away the crane and restore operations could prevent the transfer of the plant's ownership to PBF Energy by July 1. PBF Energy agreed in September 2015 to buy the refinery from ExxonMobil for \$537.5 million. A PBF spokesman had no immediate comment about the transfer deadline. Before PBF takes ownership, ExxonMobil must demonstrate the refinery has been fully operational for 15 days. The FCCU restarted in early May after being shut for 15 months following a fire and explosion. In an unrelated incident, ExxonMobil reported unplanned flaring due to unspecified unit breakdowns on Monday, according to a filing with state pollution regulators.

Reuters, 15:15 June 20, 2016

### **Chevron Reports Flaring at Its 57,000 b/d Burnaby, British Columbia Refinery June 20**

Chevron Corp said on Monday that a power outage led to flaring at its Burnaby, British Columbia refinery. Power was restored in the area and the incident did not pose a risk to plant employees or the public, according to the report. It did not specify the current status of operations at the facility.

Reuters, 10:33 June 20, 2016

### **Shell Reports Unit Restarts at Its Scotford, Alberta Facility June 18**

Royal Dutch Shell Plc reported restarting an unspecified unit at its Scotford, Alberta facility, according to a community information line. The Scotford facility houses a 100,000 b/d refinery and a 255,000 b/d oil sands upgrader.

Reuters, 9:48 June 19, 2016

### **Update: PHMSA Issues Corrective Order Amendment for Plains All American's Refugio Oil Spill in California June 17**

The Pipeline and Hazardous Materials Safety Administration (PHMSA) issued a third amendment to the corrective action order (CAO) issued to Plains All American in response to the May 19, 2015, pipeline failure in Santa Barbara County, California that leaked an estimated 2,934 barrels of crude oil onto land and beaches, and into the Pacific Ocean. This latest amendment requires Plains to fulfill a number of corrective actions before PHMSA will allow the failed pipeline (Line 901) and an adjoining pipeline connected to Line 901 (Line 903) to be restarted. Line 903 has similar construction and operating conditions as Line 901. The CAO amendment requires Plains to implement advanced leak detection capabilities, install additional safety valves and pressure sensors, develop a long-term plan for corrosion prevention, and update its facility response plan for both pipelines before they are allowed to restart.

<http://www.phmsa.dot.gov/pipeline/plains-pipeline-lp-corrective-action-order-amendment>

## ***Natural Gas***

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### **ExxonMobil Reports Unit Shut at Its 65 MMcf/d Dollarhide Gas Plant in Texas June 17**

ExxonMobil reported the Wauk-3 unit shut due to an equipment failure in the lube lines. The lube lines were flushed and the unit was restarted.

<http://www2.tceq.texas.gov/oce/eeer/index.cfm?fuseaction=main.getDetails&target=235900>

### **Regency Reports Low Suction Pressure, Power Outages at Its 290 MMcf/d Waha Gas Plant in Texas June 17**

Regency reported low suction pressure and low inlet volumes due to two power outages. Once the plant is lined out and adequate suction pressures are established, the acid gas injector will be restarted.

<http://www2.tceq.texas.gov/oce/eeer/index.cfm?fuseaction=main.getDetails&target=235898>

## Enterprise to Build 300 MMcf/d Cryogenic Natural Gas Processing Plant, Pipeline Infrastructure in Texas, New Mexico June 20

Enterprise Products Partners L.P. on Monday announced plans to build a new cryogenic natural gas processing facility and associated natural gas and natural gas liquids (NGL) pipeline infrastructure to facilitate continued growth of NGL-rich natural gas production in the Delaware Basin of West Texas and southeastern New Mexico. The site for the new processing plant, which will have a nameplate capacity of 300 MMcf/d and the capability to extract more than 40,000 b/d of NGLs, has yet to be determined. The project is anchored by long-term commitments from a major producer. The facility is expected to begin service in the second quarter of 2018. In addition to providing new gas processing capabilities, the scope of the project will include construction of rich natural gas gathering lines, a residue pipeline to Waha, and an NGL pipeline to Enterprise's Mid-America Pipeline system. These assets will be designed to integrate with the rest of the company's Delaware Basin infrastructure. <http://www.enterpriseproducts.com/investors/news-releases>

## Other News

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Nothing to report.

## International News

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### BP Sanctions 'Fast-Track' Development of Atoll Discovery in Egypt June 20

BP on Monday announced that together with the Egyptian Natural Gas Holding Company (EGAS), it has sanctioned development of the Atoll Phase One project which is an early production scheme that will bring up to 300 MMcf/d gross of gas to the Egyptian domestic gas market starting in the first half of 2018. BP recently completed multiple transportation and processing agreements accelerating the development of the Atoll field, which contains an estimated 1.5 trillion cubic feet of gas and 31 million barrels of condensates. Onshore processing will be handled by the existing West Harbour gas processing facilities. BP announced the Atoll discovery in March 2015.

<http://www.bp.com/en/global/corporate/press/press-releases/bp-sanctions-fast-track-development-of-atoll-discovery-in-egypt>

## Energy Prices

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U.S. Oil and Gas Prices			
June 20, 2016			
	Today	Week Ago	Year Ago
<b>CRUDE OIL</b>			
<b>West Texas Intermediate U.S.</b>	49.35	48.64	59.57
\$/Barrel			
<b>NATURAL GAS</b>			
<b>Henry Hub</b>	2.58	2.42	2.86
\$/Million Btu			

Source: Reuters

## Links

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***This Week in Petroleum*** from the U.S. Energy Information Administration (EIA)

<http://www.eia.gov/oog/info/twip/twip.asp>

Updated every Wednesday.

***Weekly Petroleum Status Report*** from EIA

[http://www.eia.gov/oil\\_gas/petroleum/data\\_publications/weekly\\_petroleum\\_status\\_report/wpsr.html](http://www.eia.gov/oil_gas/petroleum/data_publications/weekly_petroleum_status_report/wpsr.html)

Updated after 10:30 AM & 1:00 PM ET every Wednesday.

***Natural Gas Weekly Update*** from EIA

<http://www.eia.gov/oog/info/ngw/ngupdate.asp>

Updated after 2:00 PM ET every Thursday.

### ENERGY ASSURANCE DAILY

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<http://www.oe.netl.doe.gov/ead.aspx>

Please direct comments and questions to: [ead@oe.netl.doe.gov](mailto:ead@oe.netl.doe.gov)